

CHEMISTRY.

SATURDAY, MARCH 18TH :—MORNING, 11.30 TO 1.

Examiner,.....PROFESSOR R. CRAIK, M.D.

1. Describe Boyle's or Mariotte's law of gases, and explain the principles involved in the construction and in the variations of the ordinary mercurial barometer.
2. Describe the laws of (1) Definite Proportions, (2) Multiple Proportions, and (3) Equivalent Proportions, giving examples to illustrate each of them.
3. Describe the nature and origin of the principal foreign substances found in rain water, spring water and river water, and explain the natural process of purification which river water undergoes and how far it may thus be rendered safe for domestic purposes.
4. Describe the modes of production, the uses and the physical and chemical properties of (1) Sulphur Dioxide and (2) Sulphuretted Hydrogen.
5. What are the principal tests for (1) Sulphuric Acid (2) Hydrochloric Acid and (3) Hydrocyanic Acid?
6. Write a formula for one of each of the following substances, (1) a saturated hydrocarbon, (2) a monatomic and a triatomic alcohol, (3) a haloid ether, (4) an ethereal salt, and (5) a primary monamine.